WHAT IS CLAIMED IS:

15	755	1. A computer-implemented method of displaying a document using a
2	browser, the n	nethod comprising:
3		accessing the document;
4		searching the document to identify text patterns in the document which are
5	relevant to a p	lurality of concepts;
6		marking locations of the text patterns in the document; and
7	•	displaying the document using the browser such that the text patterns in
8	the document	which are relevant to the plurality of concepts are annotated.
1		2. The method of claim 1 wherein the browser is an Internet Explorer
2	browser and the	he searching and marking use information about the document stored in a
3	Document Ob	ject Model configured by the Internet Explorer browser.
1		3. The method of claim 1 wherein searching the document comprises:
2		determining text patterns associated with the plurality of concepts; and
3		searching the document to identify text patterns in the document which
4	match the text	patterns associated with the plurality of concepts.
1		4. The method of claim 1 wherein:
2		the browser is an Internet Explorer browser; and
3		the searching and marking is performed using methods provided by an
4	IHTMLTxtRa	inge interface.
1		5. The method of claim 1 wherein:
2		the browser is an Internet Explorer browser; and
3		the searching and marking is performed using methods provided by an
4	IMarkupServi	ices interface.
1		6. The method of claim 1 wherein marking the locations of the text
2	patterns in the	e document comprises inserting annotation tags in front of and after each
3	text pattern id	entified in the document to be relevant to a concept from the plurality of
4	concepts, who	erein the annotation tags for each text pattern identify the concept to which
5	the text patter	n is relevant.

1	•	7.	The method of claim 6 wherein displaying the document
2	comprises:		
3		for eac	ch text pattern identified as being relevant to a concept from the
4	plurality of con	cepts:	
5			determining the concept to which the text pattern is relevant from
6	the annotation t	tags su	nrounding the text pattern;
7			determining style information to be used for annotating the text
8	pattern, wherein	n the s	tyle information is associated with the concept to which the text
9	pattern is releva	ant; an	.d `
10			annotating the text pattern based on the style information.
1		8.	The method of claim 7 wherein annotating the text pattern
2	comprises high	lightin	ng the text pattern in a color indicated by the style information.
1	9	9.	The method of claim 1 further comprising:
2	•	calcula	ating a score for each concept in the plurality of concepts, the score
3	indicating relev	ance o	of the document to the concept; and
4	•	display	ying a relevance indicator for each concept in the plurality of
5	concepts based	on the	e score for the concept.
1		10.	The method of claim 9 wherein calculating the score for each
2	concept in the p	olurali	ty of concepts comprises:
3	:	for eac	ch concept in the plurality of concepts:
4			determining frequency of text patterns in the document identified
5	as being relevan	nt to th	ne concept; and
6			calculating the score based on the frequency of the text patterns.
1		11.	A computer-implemented method of displaying a multi-page
2	document using	g a bro	owser, the method comprising:
3	:	access	ing a multi-page document;
4	•	displa	ying a section of the multi-page document in a first viewing area of a
5	display;		
6		determ	nining information about the contents of the multi-page document;
7		displa	ying a thumbnail image in a second viewing area of the display
8	based on the co	ntents	information determined from the multi-page document, the

9	thumbnail image displaying the contents of the multi-page document in a continuous
10	form; and
11	emphasizing an area of the thumbnail image corresponding to the section
12	of the multi-page document displayed in the first viewing area.
1	12. The method of claim 11 wherein:
2	determining information about the contents of the multi-page document
3	comprises:
4	determining dimension information for the contents; and
5	determining coordinate information for the contents; and
6	displaying the thumbnail image comprises:
7	displaying the contents in the thumbnail image based on the
8	dimension and coordinate information for the contents.
1	13. The method of claim 12 wherein displaying the contents in the
2	thumbnail image based on the dimension and coordinate information for the contents
3	comprises:
4	for each content:
5	determining position of the content in the thumbnail image by
6	dividing the coordinate and dimension information for the content by a reduction ratio.
1	14. The method of claim 11 wherein determining information about the
2	contents of the multi-page document comprises:
3	determining information about text entities contained in the multi-page
4.	document;
5	determining dimension and coordinate information for the text entities;
6	determining if the text entities are relevant to a plurality of concepts; and
7	if a text entity is relevant to a concept in the plurality of concepts:
8	associating the text entity with style information for the concept,
9	the style information indicating a manner of annotating text entities in the multi-page
10	document which are relevant to the concept.

1	1	5. The method of claim 14 wherein displaying the thumbnail image
2	comprises:	
3	i	f a text entity is relevant to a concept in the plurality of concepts:
4		displaying the text entity in the thumbnail image using the style
5	information for	the concept.
1	1	6. The method of claim 15 further comprising:
2	n	nodifying the style information for a concept;
3	iı	n response to the modification:
4		identifying text entities in the multi-page document which are
5	relevant to the c	oncept; and
6		dynamically changing the display of the identified text entities in
7	the thumbnail in	nage based on the modified style information.
1	1	7. The method of claim 11 wherein determining information about the
2	contents of the r	nulti-page document comprises:
3	d	etermining information about forms contained in the multi-page
4	document; and	
5	d	etermining dimension and coordinate information for the forms.
1	1	8. The method of claim 11 wherein determining information about the
2	contents of the r	nulti-page document comprises:
3	d	etermining information about image elements contained in the multi-page
4	document; and	
5	d	etermining dimension and coordinate information for the image elements.
1	1	9. A computer-implemented method of displaying a multi-page
2	document using	a browser, the method comprising:
3	a	ccessing the multi-page document;
4	S	earching the multi-page document to identify text patterns in the
5	document which	are relevant to a plurality of concepts;
6	n	narking locations of the text patterns in the document;
7	ď	isplaying a section of the multi-page document in a first viewing area of a
8	display such tha	t the text patterns in the multi-page document which are relevant to a
9	plurality of cond	epts are annotated;

10	determining information about the contents of the multi-page document;
11	displaying a thumbnail image in a second viewing area of the display
12	based on the contents information determined from the multi-page document, the
13	thumbnail image displaying the contents of the multi-page document in a continuous
14	form; and
15	emphasizing an area of the thumbnail image corresponding to the section
16	of the multi-page document displayed in the first viewing area.
1	20. A system for displaying a document using a browser, the system
2	comprising:
3	a processor; and
4	a memory coupled to the processor and configured to store a plurality of
5	modules for execution by the processor, the plurality of modules module including:
6	a module for accessing the document;
7	a module for searching the document to identify text patterns in the
8	document which are relevant to a plurality of concepts;
9	a module for marking locations of the text patterns in the
10	document; and
11	a module for displaying the document using the browser such that
12	the text patterns in the document which are relevant to the plurality of concepts are
13	annotated.
1	21. The system of claim 20 wherein the browser is an Internet Explorer
2	browser and the module for searching and the module for marking use information about
3	the document stored in a Document Object Model configured by the Internet Explorer
4	browser.
1	22. The system of claim 20 wherein the module for searching the
2	document further comprises:
3	a module for determining text patterns associated with the plurality of
4	concepts; and
5	a module for searching the document to identify text patterns in the
6	document which match the text natterns associated with the plurality of concents

1	23. The system of claim 20 wherein:
2	the browser is an Internet Explorer browser; and
3	the modules for searching and marking use methods provided by an
4	IHTMLTxtRange interface.
1	24. The system of claim 20 wherein:
2	the browser is an Internet Explorer browser; and
3	the modules for searching and marking use methods provided by an
4	IMarkupServices interface.
1	25. The system of claim 20 wherein the module for marking the
2	locations of the text patterns in the document comprises a module for inserting annotation
3	tags in front of and after each text pattern identified in the document to be relevant to a
4	concept from the plurality of concepts, wherein the annotation tags for each text pattern
5	identify the concept to which the text pattern is relevant.
1	26. The system of claim 25 wherein the module for displaying the
2	document comprises:
3	for each text pattern identified as being relevant to a concept from the
4	plurality of concepts:
5	a module for determining the concept to which the text pattern is
6	relevant from the annotation tags surrounding the text pattern;
7	a module for determining style information to be used for
8	annotating the text pattern, wherein the style information is associated with the concept to
9	which the text pattern is relevant; and
10	a module for annotating the text pattern based on the style
11	information.
1	27. The system of claim 26 wherein the module for annotating the text
2	pattern comprises a module for highlighting the text pattern in a color indicated by the
3	style information.

1	28. The system of claim 20 wherein the plurality of modules stored in
2	the memory further comprise:
3	a module for calculating a score for each concept in the plurality of
4	concepts, the score indicating relevance of the document to the concept; and
5	a module for displaying a relevance indicator for each concept in the
6	plurality of concepts based on the score for the concept.
1	29. The system of claim 28 wherein the module for calculating the
2	score for each concept in the plurality of concepts comprises:
3	for each concept in the plurality of concepts:
4	a module for determining frequency of text patterns in the
5	document identified as being relevant to the concept; and
6	a module for calculating the score based on the frequency of the
7	text patterns.
1	30. A system for displaying a multi-page document using a browser,
2	the system comprising:
3	a processor; and
4	a memory coupled to the processor and configured to store a plurality of
5	modules for execution by the processor, the plurality of modules module including:
6	a module for accessing a multi-page document;
7	a module for displaying a section of the multi-page document in a
8	first viewing area of a display;
9	a module for determining information about the contents of the
10	multi-page document;
11	a module for displaying a thumbnail image in a second viewing
12	area of the display based on the contents information determined from the multi-page
13	document, the thumbnail image displaying the contents of the multi-page document in a
14	continuous form; and
15	a module for emphasizing an area of the thumbnail image
16	corresponding to the section of the multi-page document displayed in the first viewing
17	area.

1	31. The system of claim 30 wherein:
2	the module for determining information about the contents of the multi-
3	page document comprises:
4	a module for determining dimension information for the contents;
5	and
6	a module for determining coordinate information for the contents;
7	and
8	the module for displaying the thumbnail image comprises:
9	a module for displaying the contents in the thumbnail image based
10	on the dimension and coordinate information for the contents.
1	32. The system of claim 31 wherein the module for displaying the
2	contents in the thumbnail image based on the dimension and coordinate information for
3	the contents comprises:
4	for each content:
5	a module for determining position of the content in the thumbnail
6	image by dividing the coordinate and dimension information for the content by a
7	reduction ratio.
1	33. The system of claim 30 wherein the module for determining
2	information about the contents of the multi-page document comprises:
3	a module for determining information about text entities contained in the
4	multi-page document;
5	a module for determining dimension and coordinate information for the
6	text entities;
7	a module for determining if the text entities are relevant to a plurality of
8	concepts; and
9	if a text entity is relevant to a concept in the plurality of concepts:
10	a module for associating the text entity with style information for
11	the concept, the style information indicating a manner of annotating text entities in the
12	multi-page document which are relevant to the concept.

1	34. The system of claim 33 wherein the module for displaying the
2	thumbnail image comprises:
3	if a text entity is relevant to a concept in the plurality of concepts:
4	a module for displaying the text entity in the thumbnail image
5	using the style information for the concept.
1	35. The system of claim 34 wherein the plurality of modules stored in
2	the memory further comprise:
3	a module for modifying the style information for a concept;
4	in response to the modification:
5	a module for identifying text entities in the multi-page document
6	which are relevant to the concept; and
7	a module for dynamically changing the display of the identified
8	text entities in the thumbnail image based on the modified style information.
1	36. The system of claim 30 wherein the module for determining
2	information about the contents of the multi-page document comprises:
3	a module for determining information about forms contained in the multi-
4	page document; and
5	a module for determining dimension and coordinate information for the
6	forms.
1	37. The system of claim 30 wherein the module for determining
2	information about the contents of the multi-page dodument comprises:
3	a module for determining information about image elements contained in
4	the multi-page document; and
5	a module for determining dimension and coordinate information for the
6	image elements.
1	38. A system for displaying a multi-page document using a browser,
2	the system comprising:
3	a processor; and
4	a memory coupled to the processor and configured to store a plurality of
5	modules for execution by the processor, the plurality of modules module including:
6	a module for accessing the multi-page document:

7	a module for searching the multi-page document to identify text
8	patterns in the document which are relevant to a plurality of concepts;
9	a module for marking locations of the text patterns in the
10	document;
11	a module for displaying a section of the multi-page document in a
12	first viewing area of a display such that the text patterns in the multi-page document
13	which are relevant to a plurality of concepts are annotated;
14	a module for determining information about the contents of the
15	multi-page document;
16	a module for displaying a thumbnail image in a second viewing
17	area of the display based on the contents information determined from the multi-page
18	document, the thumbnail image displaying the contents of the multi-page document in a
19	continuous form; and
20	a module for emphasizing an area of the thumbnail image
21	corresponding to the section of the multi-page document displayed in the first viewing
22	area.
1	39. A computer program product stored on a computer readable
2	storage medium for displaying a document using a browser, the computer program
3	product comprising:
4	code for receiving accessing the document;
5	code for searching the document to identify text patterns in the document
6	which are relevant to a plurality of concepts;
7	code for marking locations of the text patterns in the document; and
8	code for displaying the document using the browser such that the text
9	patterns in the document which are relevant to the plurality of concepts are annotated.
1	40. A computer program product stored on a computer readable
2	storage medium for displaying a multi-page document using a browser, the computer
3	program product comprising:
4	code for accessing a multi-page document;
5	code for displaying a section of the multi-page document in a first viewing
6	area of a display;

7	code for determining information about the contents of the multi-page
8	document;
9	code for displaying a thumbnail image in a second viewing area of the
10	display based on the contents information determined from the multi-page document, the
11	thumbnail image displaying the contents of the multi-page document in a continuous
12	form; and
13	code for emphasizing an area of the thumbnail image corresponding to the
14	section of the multi-page document displayed in the first viewing area.
1	41. A computer program product stored on a computer readable
2	storage medium for displaying a multi-page document using a browser, the computer
3	program product comprising:
4	code for accessing the multi-page document;
,5	code for searching the multi-page document to identify text patterns in the
6	document which are relevant to a plurality of concepts;
7	code for marking locations of the text patterns in the document;
8	code for displaying a section of the multi-page document in a first viewing
9	area of a display such that the text patterns in the multi-page document which are relevant
10	to a plurality of concepts are annotated;
11	code for determining information about the contents of the multi-page
12	document;
13	code for displaying a thumbnail image in a second viewing area of the
14	display based on the contents information determined from the multi-page document, the
15	thumbnail image displaying the contents of the multi-page document in a continuous
16	form; and
17	code for emphasizing an area of the thumbnail image corresponding to the
18	section of the multi-page document displayed in the first viewing area.